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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known	
Application Number	09/933,972
Filing Date	2001-08-20
First Named Inventor	Hawkes, Philip et al.
Art Unit	2439
Examiner Name	SIMITOSKI, MICHAEL J

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Attorney Docket No: 010497

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
001	US4163255	07-31-1979	Pires; H. George et al.		
002	US4750167	06-07-1988	Meyer; Charles S. et al.		
003	US4870408	09-26-1989	Zdunek; Kenneth J. et al.		
004	US4881263	11-14-1989	Herbison; B. J. et al.		
005	US4901307	02-13-1990	Gilhousen et al.		
006	US4924513	05-08-1990	Herbison; B. J. et al.		
007	US5103459	04-07-1992	Gilhousen et al.		
008	US5117457	05-26-1992	Comerford; Liam D. et al.		
009	US5136586	08-04-1992	Greenblatt; Richard D. et al.		
010	US5159447	10-27-1992	Haskell; Barin G. et al.		
011	US5253294	10-12-1993	Maurer; Robert E. et al.		
012	US5257396	10-26-1993	Auld, Jr et al.		
013	US5325357	06-28-1994	Kimoto; Atsushi et al.		
014	US5351087	09-27-1994	Christopher; Todd J. et al.		
015	US5363379	11-08-1994	Eckenrode; Thomas et al.		
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017	US5371794	12-06-1994	Diffie; Whitfield et al.		
018	US5412655	05-02-1995	Yamada; Kenji et al.		
019	US5421006	05-30-1995	Jablon; David P. et al.		
020	US5481613	01-02-1996	Ford; Warwick S. et al.		
021	US5504773	04-02-1996	Padovani et al.		

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	022	US5513245	04-30-1996	Mizikovsky; Semyon et al.	
	023	US5515441	05-07-1996	Faucher et al.	
	024	US5686963	11-11-1997	Uz; K. Metin et al.	
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	026	US5751707	05-12-1998	Voit; Eric A. et al.	
	027	US5751725	05-12-1998	Chen et al.	
	028	US5758291	05-26-1998	Grube et al.	
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	033	US5878141	03-02-1999	Daly; Michael T. et al.	
	034	US5909491	06-01-1999	Luo; Tie et al.	
	035	US5940507	08-17-1999	Cane; David et al.	
	036	US5946316	08-31-1999	Chen; Xiaoqiang et al.	
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	038	US5970072	10-19-1999	Gammenthaler, Jr.; Robert Scott et al.	
	039	US5991407	11-23-1999	Murto; Juhani et al.	
	040	US6021124	02-01-2000	Haartsen; Jacobus C. et al.	
	041	US6026165	02-15-2000	Marino; Francis C. et al.	
	042	US6044154	03-28-2000	Kelly; Tadhg et al.	

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043	US6047395		04-04-2000	Zook; Christopher P. et al.	
044	US6052812		04-18-2000	Chen; Zongbo et al.	
045	US6055236		04-25-2000	Nesbett; Danny M. et al.	
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051	US6185430		02-06-2001	Yee; David Moon et al.	
052	US6199161		03-06-2001	Ahvenainen; Jouko et al.	
053	US6233234		05-15-2001	Curry; James E. et al.	
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055	US6253069		06-26-2001	Mankovitz; Roy J. et al.	
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057	US6266420		07-24-2001	Langford; Glenn C. et al.	
058	US6363480		03-26-2002	Perlman et al.	
059	US6373829		04-16-2002	Vilmur; Richard Joseph et al.	
060	US6385200		05-07-2002	Erami; Akihisa et al.	
061	US6385461		05-07-2002	Raith; Alex Krister et al.	
062	US6424717		07-23-2002	Pinder et al.	
063	US6424947		07-23-2002	Tsuria; Yossef et al.	

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	064	US6449491	09-10-2002	Dailey; Timothy E. et al.	
	065	US6463155	10-08-2002	Akiyama; Koichiro et al.	
	066	US6477377	11-05-2002	Backstrom; Olof Tomas et al.	
	067	US6490259	12-03-2002	Agrawal; Prathima et al.	
	068	US6538996	03-25-2003	West; Julian Wray et al.	
	069	US6560206	05-06-2003	Naden; James M et al.	
	070	US6564211	05-13-2003	Andreev; Alexander E. et al.	
	071	US6574211	06-03-2003	Padovani et al.	
	072	US6598203	07-22-2003	Tang; Benjamin et al.	
	073	US6600745	07-29-2003	Chopping; Geoffrey et al.	
	074	US6601068	07-29-2003	Park et al.	
	075	US6603857	08-05-2003	Batten-Carew; Mark Christopher et al.	
	076	US6606706	08-12-2003	Li; Yunzhou et al.	
	077	US6633979	10-14-2003	Smeets; Bernhard Jan Marie et al.	
	078	US6647000	11-11-2003	Persson; Bengt et al.	
	079	US6680920	01-20-2004	Wan; Yongbing et al.	
	080	US6704368	03-09-2004	Nefedov; Nikolai et al.	
	081	US6704369	03-09-2004	Kawasaki; Naoto et al.	
	082	US6725459	04-20-2004	Bacon; Kinney C. et al.	

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	083	US6735177	05-11-2004	Suzuki; Mitsutaka et al.	
	084	US6751218	06-15-2004	Hagirahim; Hassan et al.	
	085	US6760752	07-06-2004	Liu; Gary G. et al.	
	086	US6763025	07-13-2004	Leatherbury; Ryan M. et al.	
	087	US6766024	07-20-2004	Rix et al.	
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	089	US6788681	09-07-2004	Hurren; Alan J. et al.	
	090	US6798791	09-28-2004	Riazi; Habib et al.	
	091	US6801508	10-05-2004	Lim; Byung Keun et al.	
	092	US6870923	03-22-2005	Yi et al.	
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	096	US6885874	04-26-2005	Grube; Gary W. et al.	
	097	US6895216	05-17-2005	Sato; Hijin et al.	
	098	US6898285	05-24-2005	Hutchings et al.	
	099	US6915272	07-05-2005	Ziliacus; Martin et al.	
	100	US6918035	07-12-2005	Patel; Sarvar et al.	
	101	US6925285	08-02-2005	Kim; Jae-Geun et al.	
	102	US6990680	01-24-2006	Wugofski; Theodore D. et al.	
	103	US7016351	03-21-2006	Farinacci; Dino et al.	

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	104	US7036023	04-25-2006	Fries; Robert M. et al.	
	105	US7039180	05-02-2006	Issaa; Michael A. et al.	
	106	US7046672	05-16-2006	Liao; HongBin et al.	
	107	US7058809	06-06-2006	White; Mark Andrew George et al.	
	108	US7072865	07-04-2006	Akiyama; Koichiro et al.	
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	110	US7114175	09-26-2006	Lahteenmaki; Markku et al.	
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	112	US7197072	03-27-2007	Hsu; Kuo-Wei et al.	
	113	US7200230	04-03-2007	Knauft; Christopher L. et al.	
	114	US7209459	04-24-2007	Kangas; Antti et al.	
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	116	US7239704	07-03-2007	Maillard et al.	
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	125	US20010004761	06-21-2001	Zehavi, Ephraim; et al.	
	126	US20020080887	06-27-2002	Jeong, Young-Ho et al.	
	127	US20020091931	07-11-2002	Quick, Roy Franklin JR et al.	
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	143	US20040095515	05-20-2004	Tajima, Teruo; et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				
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Sheet	8	of	15	Attorney Docket No: 010497
Application Number		09/933,972		
Filing Date		2001-08-20		
First Named Inventor		Hawkes, Philip et al.		
Art Unit		2439		
Examiner Name		SIMOTOSKI, MICHAEL J		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2(if known)}			
	144	US20040101138	05-27-2004	Revital, Dan et al.	
	145	US20040120527	06-24-2004	Hawkes, Philip Michael et al.	
	146	US20040131185	07-08-2004	Kakumer, Anil K.; et al.	
	147	US20040132402	07-08-2004	Agashe, Parag A.; et al.	
	148	US20040202329	10-14-2004	Jung, Jung-Soo; et al.	
	149	US20040266391	12-30-2004	Hafren, Jonas; et al.	
	150	US20050048963	03-03-2005	Kubler, Joseph J.; et al.	
	151	US20050055551	03-10-2005	Becker, Claudia; et al.	
	152	US20050108563	05-19-2005	Becker, Claudia; et al.	
	153	US20050144550	06-30-2005	Jeon, Ik Beom; et al.	
	154	US20050271210	12-08-2005	Soppera, Andrea; et al.	
	155	US20060168446	07-27-2006	Ahonen; Pasi; et al.	
	156	US20060171540	08-03-2006	Lee; Sung-min; et al.	
	157	US20060242412	10-26-2006	Jung; Bae-eun; et al.	

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See **Kinds Codes** of USPTO Patent Document at www.uspto.gov or MPEP 901.04. ***Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).** 4
For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ***kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.** ***Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.****

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Examiner Name	SIMITOSKI, MICHAEL J

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FOREIGN PATENT DOCUMENTS

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	158	EP0636963A2	02-01-1995	IBM [US] et al.		<input type="checkbox"/>
	159	EP0702477A2	03-20-1996	SUN MICROSYSTEMS INC [US] et al.		<input type="checkbox"/>
	160	EP0748058A2	12-11-1996	AT & T CORP [US] et al.		<input type="checkbox"/>
	161	EP0813309A2	12-17-1997	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	162	EP0854618A2	07-22-1998	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	163	EP0924898A1	06-23-1999	INST NAT RECH INF AUTOMAT [FR] et al.		<input type="checkbox"/>
	164	EP0928084A2	07-07-1999	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	165	EP0951198A2	10-20-1999	NEC CORP [JP] et al.		<input type="checkbox"/>
	166	EP1001570A2	05-17-2000	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	167	EP1032150A2	08-30-2000	TRW INC [US] et al.		<input type="checkbox"/>
	168	EP1075123A1	02-07-2001	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	169	EP1098446A2	05-09-2001	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	170	EP1117204A2	07-18-2001	HEWLETT PACKARD CO [US] et al.		<input type="checkbox"/>
	171	EP1185125A1	03-06-2002	NTT DOCOMO INC [JP] et al.		<input type="checkbox"/>
	172	EP1190526A1	3-27-2002	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	173	GB2346512A	08-09-2000	NEC CORP [JP] et al.		<input type="checkbox"/>

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		Country Code ³ , Number ⁴ Kind Code ⁵ (if known)				
	174	JP10063598A	03-06-1998	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	175	JP10200536A	07-31-1998	TOSHIBA CORP et al.		<input type="checkbox"/>
	176	JP11313059A	11-09-1999	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	177	JP11355460A	12-24-1999	MEIDENSHA ELECTRIC MFG CO LTD et al.		<input type="checkbox"/>
	178	JP2000165258A	06-16-2000	YRP IDO TSUSHIN KIBAN GIJUTSU; TOSHIBA CORP et al.		<input type="checkbox"/>
	179	JP2001177513A	06-29-2001	NIPPON TELEGRAPH & TELEPHONE et al.		<input type="checkbox"/>
	180	JP20000137551A	05-16-2000	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
	181	RU2073913C1	02-20-1997	KONINKL PHILIPS ELECTRONICS NV [NL] et al.		<input type="checkbox"/>
	182	RU2077113C1	04-10-1997	VOENNAYA AKADEMIYA SVYAZI [KZ] et al.		<input type="checkbox"/>
	183	RU2091983C1	09-27-1997	CHIZHUKHIN GENNADIJ N [SU] et al.		<input type="checkbox"/>
	184	RU2115249C1	07-10-1998	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	185	RU2147792C1	04-20-2000	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	186	RU2187205C2	08-10-2002	SAMSUNG ELECTRONICS CO LTD [KR] et al.		<input type="checkbox"/>
	187	WO0008883A1	02-17-2000	ERICSSON INC [US] et al.		<input type="checkbox"/>
	188	WO0013356A1	03-09-2000	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	189	WO0057601A1	09-28-2000	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>

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	190	WO0062547A1	10-19-2000	OPENTV INC [US] et al.		<input type="checkbox"/>
	191	WO0076125A1	12-14-2000	NORTEL NETWORKS LTD [CA] et al.		<input type="checkbox"/>
	192	WO0078008A1	12-21-2000	SSH COMM SECURITY LTD [FI] et al.		<input type="checkbox"/>
	193	WO0101630A1	01-04-2001	ERICSSON TELEFON AB L M [SE] et al.		<input type="checkbox"/>
	194	WO02054663A2	07-11-2002	QUALCOMM INC [US] et al.		<input type="checkbox"/>
	195	WO0247407A2	06-13-2002	QUALCOMM INC [US] et al.		<input type="checkbox"/>
	196	WO8607224A1	12-04-1986	SCIENTIFIC ATLANTA [US] et al.		<input type="checkbox"/>
	197	WO9715161A1	04-24-1997	NOKIA TELECOMMUNICATIONS OY [FI] et al.		<input type="checkbox"/>
	198	WO9825422A1	06-11-1998	NOKIA TELECOMMUNICATIONS OY [FI] et al.		<input type="checkbox"/>
	199	WO9959355A2	11-18-1999	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>
	200	WO03063418A1	07-31-2003	QUALCOMM INC [US]		<input type="checkbox"/>
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201	"Functional Model of a Conditional Access System", EBU Review - Technical European Broadcasting Union, Bussels, BE, No.266; Dec 21, 1995; pgs 64-77; XP000559450.		
202	"TIA/EIA/IS-95-B Mobile Station-Base Station Compatibility Standard For Dual-Mode Wideband Spread Spectrum Cellular System." (IS-95 STANDARD).		
203	010497 International Search Report PCT/US02/009835, ISA, EPO, 7/8/02.		
204	3G TS 25.213 V4.1.0 (2001-06) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Spreading and Modulation (FDD)(Release 4).		
205	3GPP TS 25.211 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Channels and Mapping of Transport Channels Onto Physical Channels (FDD)(Release 4).		
206	3GPP TS 25.212 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Multiplexing and Channel Coding (FDD)(Release 4).		
207	3GPP TS 25.214 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Layer Procedures (FDD)(Release 4).		
208	3GPP2 C.S0002-0 Version 1.0 (1999-07) 3rd Generation Partnership Project 2 "3GPP2" Physical Layer Standard for cdma2000 Spread Spectrum Systems.		
209	AL-TAWIL, "A New Authentication Protocol for Roaming Users in GSM", Proceedings for IEEE International Symposium on Computers and Communication, 6 July 1999, pp 93-99.		
210	B.G. MARCHENT et al. "Intelligent Control of Mobile Multimedia Systems" Vehicular Technology Conference 1998. VTC 98, 48th IEEE Ottawa, Canada, May 18-21 1998; New York, USA, May 18, 1998, pages 2047-2051.		
211	BACCHELLI, F et al.: "Self Organizing Hierarchical Multicast Trees And Their Optimization," INFOCOM 1999. IEEE, 1081-1089 (21 MARCH 1999).		
212	BORMANN, et al., "Robust Header Compression (ROHC)," Internet Engineering Task Force IETF Draft, 1-145, Feb. 26, 2001.		
213	BROWN: "The Electronic Post It Note Model for Mobile Computing Applications," Computing Lab, The University, Canterbury, Kent, The Institution of Electrical Engineers, IEEE, Savoy Place, London, WC2R OBL, UK.		
214	ESTRIN, et al., "The Protocol Independent Multicast-Sparse Mode (PIM-SM)," RFC 2362, June 1998.		

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	215	ETSI;"Universal Mobile Telecommunications Systems (UMTS); Multimedia Broadcast/Multicast Service (MBMS); Stage 1, 3GPP TS 22.146 version 5.2.0 Release 5", ETSI TS 22.146 v5.2.0, pages 1-15, 03/2002.	
	216	GONG, L et al: "Trade-Offs In Routing Private Multicast Traffic," Global Telecommunications Conference, 1995. IEEE, 2124-2128 (13 NOV 1995).	
	217	GREG Rose et al., "The Secure Real Time Transport Protocol," Internet Draft, February 2001, pages 1-26.	
	218	KALLIOKULJU J.: "User Plane Architecture of 3rd Generation Mobile Telecommunication Network," IEEE International Conference on Networks, ICON, Proceedings on Networks (ICON'99), 28 September 1999 (1999-09-28) - 1 October 1999 (1999-10-01), pgs. 270-278, XP010354980.	
	219	LIN, et al: "A Multicast Routing Protocol for Multi-hop Wireless Networks," Dept. of Computer Science and Information Engineering, Chung Cheng University, Taiwan, Global Telecommunications Conference, XP010373304.	
	220	LOU et al., "Progressive Video Streaming Over 2G and 3G Wireless Systems," Proceedings Of The 11TH IEEE International Symposium On Personal Indoor And Mobile Radio Communications, vol.2, September 18-21, 2000, London, pages 1550-1554.	
	221	MACQ. BENOIT M et al. "Cryptology For Digital TV Broadcasting", 1995 IEEE.	
	222	MENEZES, A et al.: "Handbook of Applied Cryptography" 1997, CRC Press LIC, USA XP002248262 Pgs. 497-500, 551-552.	
	223	MENEZES, A et al.: "Handbook of Applied Cryptography," Chapter 13, pp. 543-590, CRC Press (1996).	
	224	MIYAZAKI: "A Stream-data Multicast Protocol Using IP Unicast Address" Technical Report of IEICE, IN2001-9, May 11, 2001.	
	225	MOOIJ, W.: "Advances in Conditional Access Technology", IEEE, pp. 461-464 (1997-09).	
	226	MOY, "Multicast Extensions to OSPF," RFC 1584, March 1994.	
	227	PAUL K et al: "A Stability-Based Distributed Routing Mechanism To Support Unicast And Multicast Routing In Ad Hoc Wireless Network" Computer Communications, Elsevier Science Publishers BV, Amsterdam, NL, VOL. 24, NO. 18, 1 DEC 2001, Pages 1828-1845, XP0043	

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Application Number	09/933,972
Filing Date	2001-08-20
First Named Inventor	Hawkes, Philip et al.
Art Unit	2439
Examiner Name	SIMITOSKI, MICHAEL J

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	228	SCHNEIER, B.: "Applied Cryptography, Conference Key Distribution and Secret Broadcasting" Second Edition, pp. 520, 523-524, John Wiley & Sons, Inc. XP002248263 (1996).	
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	230	STALLINGS, W.: "Cryptography and network security" 1995, Prentice-Hall, Inc., XP002248261 pgs 402-406, 413-417, 421-424.	
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	233	TIA/EIA/IS-856 Interim Standard cdma2000 High Rate Packet Data Air Interface Specification (2000-11).	
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	235	TOH C-K et al: "Abam: On-Demand Associativity-Based Multicast Routing For AD HOC Mobile Networks," Vehicular Technology Conference, 2000. IEEE, 987-993 (2000).	
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